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POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

	PART 1 - SITE INFORM	Y ASSESSMENT ATION AND ASSESSME	INT LAU	035 587 304
II. SITE NAME AND LOCATION				
01 SITE NAME (Legal, common, or descriptive name of alle)	_	02 STREET, ROUTE NO., OR S	SPECIFIC LOCATION IDENTIFIER	
Prudential Oil	Co.		T-1-5, R-,	13-W
Mt Carmel To	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner,	O4 STATE 05 ZIP CODE 0		07COUNTY 06 CONG CODE DIST 185 19
09 COORDINATES LATITUDE 38 27 32 4	187 50 15_	Mount Carr	nel 7.5' Quad	(238)
10 DIRECTIONS TO SITE (Starting from nearest public road)				
Sec 1	Attached.	Map		
III. RESPONSIBLE PARTIES		Application of the second		
O1 OWNER (I known) Unknown		02 STREET (Business, mailing, rea	eldentiel)	
O3 CITY		04 STATE 05 ZIP CODE	06 TELEPHONE NUMBER	
07 OPERATOR (# brown and different from owner)	Company	08 STREET (Susiness, making, red	15th Ste	PFF+
Lawrence VIII	1	10 STATE 11 ZIP CODE	12 TELEPHONE NUMBER	
13 TYPE OF OWNERSHIP (Check one) A. PRIVATE B. FEDERAL:		C. STATE	E DD.COUNTY DE. MU	INICIPAL
	(Agency name)			
F. OTHER:	(Specify)	G. UNKN	OWN	
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check of that apply)				
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check:		LLED WASTE SITE (CERCLA 103	c) DATE RECEIVED:	MY YEAR OF C. NONE
	DAY YEAR B. UNCONTRO	LLED WASTE SITE (CERCLA 103	O DATE RECEIVED:	MY YEAR OC NONE
A. RCRA 3001 DATE RECEIVED: MONTH C	DAY YEAR BY (Check all that apply) A. EPA B. E.	PA CONTRACTOR		WY YEAR DEC. NONE
IV. CHARACTERIZATION OF POTENTIAL H	DAY YEAR B. UNCONTRO	PA CONTRACTOR		
IV. CHARACTERIZATION OF POTENTIAL H	BY (Check of that apply) A EPA B. E CONTRACTOR NAME(S):	PA CONTRACTOR	C. STATE D. OTHER	
O2 SITE STATUS (Check one) A. RCRA 3001 DATE RECEIVED: MONTH C. MONTH DAY YEAR O2 SITE STATUS (Check one) A. ACTIVE B. INACTIVE C. UNIT	BY (Check all that apply) BY (Check all that apply) A. EPA B. E E. LOCAL HEALTH OF CONTRACTOR NAME(S): 03 YEARS OF OPE	PA CONTRACTOR	C. STATE D. OTHER	CONTRACTOR
A. RCRA 3001 DATE RECEIVED: MONTH CO. IV. CHARACTERIZATION OF POTENTIAL H. 01 ON SITE INSPECTION OF YES DATE MONTH DAY YEAR 02 SITE STATUS (Check one) A. ACTIVE B. INACTIVE C. UNI 04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESE	B. UNCONTRO	PA CONTRACTOR	C. STATE D. OTHER	CONTRACTOR
O2 SITE STATUS (Check one) A. RCRA 3001 DATE RECEIVED: MONTH C. MONTH DAY YEAR O2 SITE STATUS (Check one) A. ACTIVE B. INACTIVE C. UNIT	B. UNCONTRO	PA CONTRACTOR FICIAL F. OTHER: FRATION BEGINNING YEAR ENORGY	C. STATE D. OTHER	CONTRACTOR
O2 SITE STATUS (Check one) A. ACTIVE B. INACTIVE C. UNI O4 DESCRIPTION OF SUBSTANCES POSSIBLY PRESE	B. UNCONTRO	PA CONTRACTOR FICIAL F. OTHER: FRATION BEGINNING YEAR ENGING	C. STATE D. OTHER	CONTRACTOR
O2 SITE STATUS (Check one) A. ACTIVE B. B. INACTIVE C. UNI O4 DESCRIPTION OF SUBSTANCES POSSIBLY PRESE O// Waste (Tox/ Heavy Metals (So	B. UNCONTROL MAZARD BY (Check all that apply) A. EPA B. E CONTRACTOR NAME(S): KNOWN OR YEARS OF OPE KNOWN OR ALLEGED LUB/E/TOXIC/	PACONTRACTOR FICIAL F. OTHER: FRATION BEGINNING YEAR ENGING PETS 15 tal n +)	C. STATE D. OTHER (Specify)	CONTRACTOR
O2 SITE STATUS (Check one) O4 DESCRIPTION OF POTENTIAL PROPERTION O5 DESCRIPTION OF BUBSTANCES POSSIBLY PRESE Oily Waste (Toxi Heavy Metals (So O5 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRON Ground Water	B. UNCONTROD MAZARD BY (Check all that apply) A. EPA B. E. E. LOCAL HEALTH OF CONTRACTOR NAME(S): KNOWN O3 YEARS OF OPE KNOWN OTHER CONTRACTOR NIMENT AND/OR POPULATION (Population	PACONTRACTOR FICIAL F. OTHER: FRATION Unk BEGINNING YEAR ENORGY Persistant) Environment	C. STATE D. OTHER (Specify) VEAR VEAR	CONTRACTOR
O2 SITE STATUS (Check one) O4 DESCRIPTION OF POTENTIAL HONOTH DAY YEAR O5 DESCRIPTION OF SUBSTANCES POSSIBLY PRESE O1/y Waste (Toxi Heavy Metals (So O5 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRON OF POTENTIAL HAZARD TO ENVIRON V. PRIORITY ASSESSMENT O1 PRIORITY FOR INSPECTION (Check one. N. high or medium) A. HIGH X. B. MEDNI WE SHOULD SEED TO SE	B. UNCONTRO MAZARD BY (Check all that apply) A. EPA B. E E. LOCAL HEALTH OF CONTRACTOR NAME(S): KNOWN ONT. KNOWN, OR ALLEGED LUB/E/TOXIC/ NIMENT AND/OR POPULATION (Population (Population ONT A Checked, complete Part 2 - Waste In UM C. LOW	PACONTRACTOR FICIAL F. OTHER: FRATION Unk BEGINNING YEAR ENDING! Persistant) /Environ men formation and Part 3 - Description of Haze	C. STATE D. OTHER (Specify) VEAR UNIKNOW!	I CONTRACTOR
O2 SITE STATUS (Check one) O4 DESCRIPTION OF POTENTIAL HOUSE OF A CONTINUE OF A CONTI	B. UNCONTRO MAZARD BY (Check all that apply) A. EPA B. E E. LOCAL HEALTH OF CONTRACTOR NAME(S): KNOWN ONT. KNOWN, OR ALLEGED LUB/E/TOXIC/ NIMENT AND/OR POPULATION (Population (Population ONT A Checked, complete Part 2 - Waste In UM C. LOW	PACONTRACTOR FICIAL F. OTHER: FRATION Unk BEGINNING YEAR ENDING! Persistant) /Environ men formation and Part 3 - Description of Haze	C. STATE D. OTHER (Specify) VEAR UNKNOW!	I CONTRACTOR
OR DESCRIPTION OF POTENTIAL HOLD OF DESCRIPTION OF POTENTIAL HOLD OF SUBSTANCES POSSIBLY PRESE O'/Y Waste (Toxi Heavy Metals (So OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRON OF POTENTIA	B. UNCONTRO MAZARD BY (Check all that apply) A. EPA B. E E. LOCAL HEALTH OF CONTRACTOR NAME(S): KNOWN ONT. KNOWN, OR ALLEGED LUB/E/TOXIC/ NIMENT AND/OR POPULATION (Population (Population ONT A Checked, complete Part 2 - Waste In UM C. LOW	PACONTRACTOR FICIAL F. OTHER: FRATION Unk BEGINNING YEAR ENOUGH PERSISTANT) ENVIRONMENT ENOUGH FRATION Unk BEGINNING YEAR ENOUGH PERSISTANT) ENVIRONMENT ENOUGH FORMENT ENOUGH FORMENT ENCOUGH FORMENT ENCOUGH	C. STATE D. OTHER (Specify) VEAR UNKNOW!	I CONTRACTOR
OR DESCRIPTION OF POTENTIAL HOLD OF DESCRIPTION OF POTENTIAL HOLD OF SUBSTANCES POSSIBLY PRESE O'/Y Waste (Toxi Heavy Metals (So OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRON OF POTENTIA	B. UNCONTRO MAZARD BY (Check all that apply) A. EPA B. E E. LOCAL HEALTH OF CONTRACTOR NAME(S): O3 YEARS OF OPE KNOWN INT. KNOWN, OR ALLEGED C ULB/E/TOXIC/ NAMENT AND/OR POPULATION (Population UM O2 OF (Agency/Organ O5 AGENCY	PACONTRACTOR FICIAL F. OTHER: FRATION Unk BEGINNING YEAR ENOUGH PERSISTANT) ENVIRONMENT ENOUGH FRATION Unk BEGINNING YEAR ENOUGH PERSISTANT) ENVIRONMENT ENOUGH FORMENT ENOUGH FORMENT ENCOUGH FORMENT ENCOUGH	C. STATE D. OTHER (Specify) VEAR UNKNOW!	etton forms) O3 TELEPHONE NUMBER

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

	I. IDENT	TIFICATION
1	OI STATE	02 SITE NUMBER

	TATES, QUANTITIES, A						
01 PHYSICAL STATES (Check afthat apply) 02 WASTE QUANT		ol waste quantities e-in tependent	03 WASTE CHARACTERISTICS (Check all Inal accity) AT TOXIC B CORROSIVE C RADIOACTIVE C RADIOACTIVE H IGNITABLE M NOT APPLICABLE				
III. WASTE T							
CATEGORY	SUBSTANCE	NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE						
OLW	OILY WASTE		Unk	Unk	Crude	0:1	
SOL	SOLVENTS		T. C.	-	O T ALLE	0//	
PSD	PESTICIDES			F-10 77 3 A-17			
occ	OTHER ORGANIC	CHEMICALS	Unk	Unk	Raise	Waste	
· IOC	INORGANIC CHEM		Jon 1	- Dann	STIKE	wa 510	
ACD	ACIDS						
BAS	BASES			and the same of the same			
MES	HEAVY METALS		Unk	Unk	Arine	Waste	1 1 S AS 1 2
IV. HAZARD	OUS SUBSTANCES (See	Appendix for most frequen				-	
01 CATEGORY	02 SUBSTANCE NAME		03 CAS NUMBER	04 STORAGE-DISPOSAL METHOD		05 CONCENTRATION	06 MEASURE OF CONCENTRATION
				TO THE STREET			
				n de la companya de l			
		THE RESERVE			- 10 H (0) + 7 - 5	15 Y 3 T 5 T 5 T 10	100000
			CEL DISCHOOL SELECT				
V. FEEDSTO	OCKS (See Appendix for CAS Nuc	mbers)	1				
CATEGORY			02 CAS NUMBER	CATEGORY	O1 FEEDS	TOCK NAME	02 CAS NUMBER
FDS				FDS			
FDS				FDS			
FDS				FDS			
FDS				FDS			

Federal S.I.A. # 02002

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state lifes, sample analysis, reports)

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT CRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
ILD 025 587 34

PART 3 - DESCRIPTION OF TRALESCOOR CONDITIONS AND INCIDENTS					
IL HAZARDOUS CONDITIONS AND INCIDENTS (Continued)					
01 M.J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION The DEAT STORY	02 () OBSERVED (DATE:		ALLEGED +2		
increased soil salinity, has been noted at other similar sites.					
(See FAL	hove) (see 05 other	following)			
01 K. DAMAGE TO FALMA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 🗆 OBSERVED (DATE:	.) POTENTIAL	☐ ALLEGED		
01 D L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:	_) □ POTENTIAL	□ ALLEGED		
01 [] M UNSTABLE CONTAINMENT OF WASTES	02 C OBSERVED (DATE:) DOTENTIAL	□ ALLEGED		
03 POPULATION POTENTIALLY AFFECTED.	04 NARRATIVE DESCRIPTION				
01 (. N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 Li OBSERVED (DATE:) POTENTIAL	□ ALLEGED		
01 C O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:	_) □ POTENTIAL	□ ALLEGED		
OINTP ILLEGAL/UNAUTHORIZED DUMPING OF WARRATIVE DESCRIPTION Site was infrequently inspected by regulatory agencies, Facility has now been backfilled making illegal dumping hard to detect.					
Mos Description of any other known potential, or alleged hazards Denuding of soils by brines is deemed leading cause of soil erosion in several It. counties.					
M. TOTAL POPULATION POTENTIALLY AFFECTED:	661				
IV. COMMENTS					
Prudential Dil Co SDD N. 15th St. Lawrenceville, IL 62		tion as	appears		
V. SOURCES OF INFORMATION (Cre specific references, e. g., state files, sample analysis, reports)					
S.I.A. study					

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

[] POTENTIAL

' ALLEGED

01 STATE 02 SITE NUMBER

ILO 035 587 30 PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS II. HAZARDOUS CONDITIONS AND INCIDENTS 01 XA. GROUNDWATER CONTAMINATION 661. 2 02 (1) OBSERVED (DATE: 04 NARRATIVE DESCRIPTION POTENTIAL Highly soluble brine waste placed for disposal in unlined lagoon. This practice has impacted private wells at similar facilities. 01 GB. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 02 C OBSERVED (DATE: _ L. POTENTIAL ALLEGED _ - _ . 1 04 NARRATIVE DESCRIPTION 02 C OBSERVED (DATE: _ 01 E C. CONTAMINATION OF AIR . POTENTIAL C. ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION 02 TOBSERVED (DATE: _ 01 G D. FIRE/EXPLOSIVE CONDITIONS L POTENTIAL C ALLEGED 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: 01 E. DIRECT CONTACT 02 C OBSERVED (DATE: _ C POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED: __ 04 NARRATIVE DESCRIPTION 01 XF. CONTAMINATION OF SOIL AND O2 OBSERVED (DATE:
03 AREA POTENTIALLY AFFECTED:

Loss of production (Agland) + damage to soil structure has been noted at similar sites. 01 MG. DRINKING WATER CONTAMINATION 661-2 02 LI OBSERVED (DATE _______) SPOTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 661-2 04 NARRATIVE DESCRIPTION See A above 01 TH. WORKER EXPOSURE/INJURY 02 C OBSERVED (DATE _ L' POTENTIAL ... ALLEGED 03 WORKERS POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

02 [] OBSERVED (DATE:

04 NARRATIVE DESCRIPTION

01 II I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED:

EXECUTIVE SUMMARY

This site has been placed in the ERRIS data base as a result of its selection for Phase II evaluation during the federally funded Surface Impoundment Assessment (SIA) study of 1980. During ERRIS placement the operator name and business address were utilized from the SIA which results in deviations from ERRIS for actual site location, Part I section II items 02 through 08 of form 2070-12. This use of operator name and address has also led to one (1) ERRIS listing representing, in actuality, from one (1) to one hundred eight (108) actual brine pits at an equal number of separate locations.

Some considerable effort has been expended to select the site with highest, Phase II SIA, pollution potential where multiple sites are represented by a single ERRIS listing. One must keep in mind that the Phase II SIA represents no more than 7 percent of the brine pits identified in Illinois. Phase I identified more than 3200 pits where Phase II evaluated a random selection of less than 220. One must also maintain a realization that phase II pollution potential was determined by bench top study with little or no actual site visitation or monitoring.

Minimal to no file information exists on this site beyond that contained in Phases I and II of the SIA. There is no direct evidence of hazardous waste disposal at this site beyond the potentially hazardous constituents of Illinois Basin brines, but with only annual inspections by Illinois Mines and Minerals staff relevent to oil production practices and recent backfilling of most brine pits in Illinois, disposal of off site material of unknown nature is possible. A literature review and laboratory analysis of samples from two other sites indicate concern for contamination of groundwater/surface water by Sodium, Sulfate, Chloride etc. (Non-Hazardous Constituents), concern for heavy metals (i.e., Chrome, Vanadium, Barium) and long chain hydrocarbons.

A question arises as to the addressability of the heavy meatals by CERCLA when one considers 40 CFR section 300.6 "Definitions - Federally Permitted Release (i)" and Section 101(10) of CERCLA. The statement "and which are reinjected" seems to allow CERCLA action, but interpretation and clarification by <u>USEPA legal staff seems required</u>. The long chain hydrocarbons would appear to be included in the exclusion given to crude oil and fractions thereof under 40 CFR section 300.6 "Definitions-Hazardous Substance" and 101(14) of CERCLA.

A medium priority has been assigned due to the potential impact of this site on groundwater in a rural area where private wells are generally the sole source for potable water. Similar sites have impacted private wells to a point requiring users to seek alternative sources for drinking water. A site inspection should be scheduled to verify/update owner-operator information and gain more thorough site specific information.

RML:bf/22





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